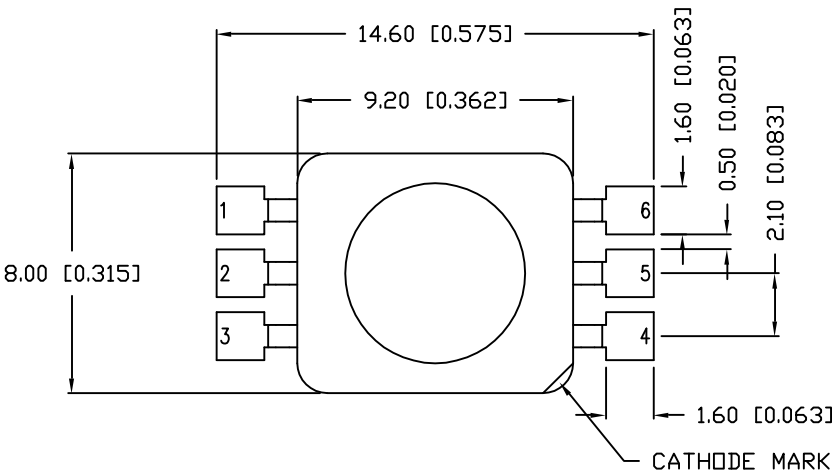
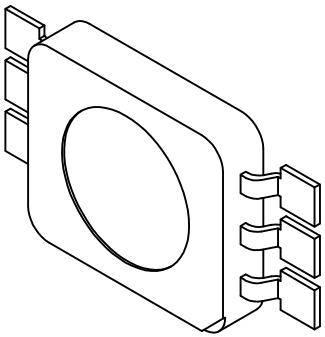
UNCONTROLLED DOCUMENT

PART NUMBER

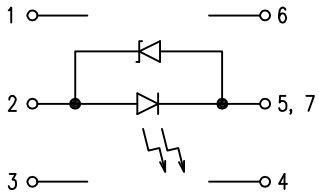
SML-LX5731SYC-TR

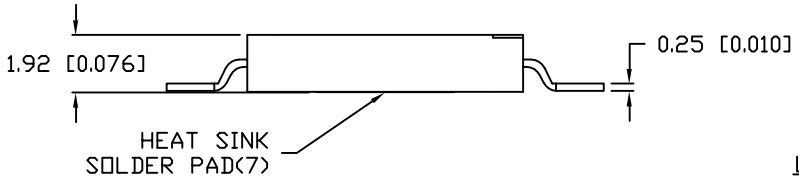
REV.





PIN LAYOUT:





CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

ELECTRO-OPTICAL CHARACTERISTICS T_A=25°C

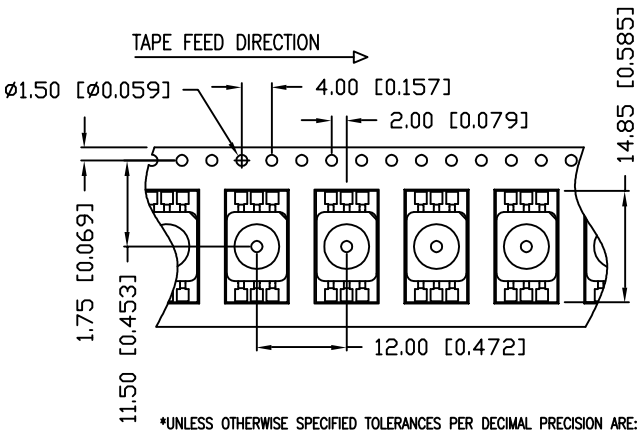
PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH			590		nm	
FORWARD VOLTAGE	V_f		2.0	2.5	V	I_f=350mA
REVERSE VOLTAGE	V_r	5			V	I_r=10µA
AXIAL INTENSITY	I_v		25		lm	I_f=350mA
VIEWING ANGLE			130		2x theta	
EMITTED COLOR:	YELLOW					
EPOXY LENS FINISH:	CLEAR					

LIMITS OF SAFE OPERATION AT 25°C

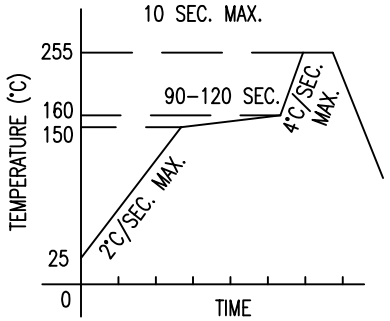
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	500	mA
STEADY CURRENT	350	mA
POWER DISSIPATION	1.5	W
DERATE FROM 25°C	−1.2	mW/°C
OPERATING, STORAGE TEMP.	−35 TO +85	°C

*T<10µS

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 3 STANDARDS

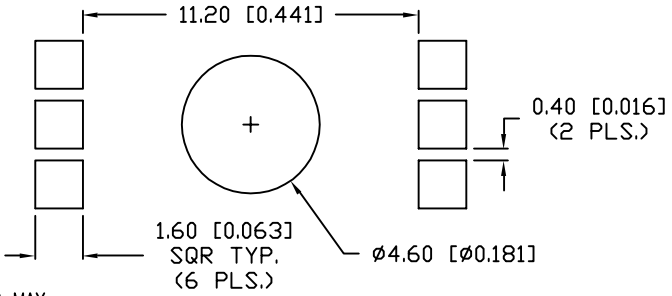


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT



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*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN=+DECIMAL PRECISION −0.00 MAX.= +0.00 −DECIMAL PRECISION

REV.

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SML-LX5731SYC-TR

14.60mm x 8.00mm SURFACE MOUNT HIGH POWER LED, 590nm AlInGaP YELLOW LED, CLEAR LENS, 1W, 800 PECIES PER TAPE AND REEL.

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RELIABILITY NOTE
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

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